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☐ 1. Document ID: US 6219520 B1      Relevance Rank: 99

L1: Entry 11 of 17

File: USPT

Apr 17, 2001

US-PAT-NO: 6219520

DOCUMENT-IDENTIFIER: US 6219520 B1

TITLE: Device for collecting and blocking impurities from applicator roller in image forming apparatus

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehara; Masanao	Saitama			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Ricoh Company, Ltd.	Tokyo			JP	03

APPL-NO: 09/ 357280      [PALM]

DATE FILED: July 20, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	10-206498	July 22, 1998

INT-CL: [07] G03 G 15/20

US-CL-ISSUED: 399/325; 118/60

US-CL-CURRENT: 399/325; 118/60

FIELD-OF-SEARCH: 399/324-326, 118/60, 118/DIG.1, 432/60, 219/216

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5142122</u>	August 1992	Ariyama	219/216
<u>5594540</u>	January 1997	Higaya et al.	399/326

<u>5666623</u>	September 1997	Yamada et al.	219/216 X
<u>5678152</u>	October 1997	Kohno et al.	399/324
<u>5832354</u>	November 1998	Kouno et al.	
<u>5915147</u>	June 1999	Kouno et al.	
<u>5991562</u>	November 1999	Ito et al.	399/325 X

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
8-76628	March 1996	JP	
9-6173	January 1997	JP	

ART-UNIT: 282

PRIMARY-EXAMINER: Royer; William J.

ATTY-AGENT-FIRM: Oblon, Spivak, McClelland, Maier &amp; Neustadt, P.C.

## ABSTRACT:

A fixing device for an image forming apparatus includes a heat roller and a press roller pressed against the heat roller. An applicator roller applies oil to at least one of the heat roller and press roller. A rotatable cleaning member and a stationary cleaning member are held in contact with the applicator roller.

14 Claims, 6 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	WIC	Draw. Cl.
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☐ 2. Document ID: JP 08334997 A, US 5666623 A Relevance Rank: 95

L1: Entry 17 of 17

File: DWPI

Dec 17, 1996

DERWENT-ACC-NO: 1997-096900

DERWENT-WEEK: 199742

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TITLE: Heat fixing device of image forming appts such as electrophotographic copier, printer - includes oil application and tension providing roller arranged over upper fixing belt and running between fixing and heating rollers

INVENTOR: ISOGAI, M; YAMADA, T ; YONEDA, S

PATENT-ASSIGNEE: MINOLTA CAMERA KK (MIOC), MINOLTA CO LTD (MIOC)

PRIORITY-DATA: 1995JP-0138966 (June 6, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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<u>JP 08334997 A</u>	December 17, 1996	008	G03G015/20
<u>US 5666623 A</u>	September 9, 1997	015	G03G015/20

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08334997A	June 6, 1995	1995JP-0138966	
US 5666623A	May 29, 1996	1996US-0654889	

INT-CL (IPC): G03 G 15/20

ABSTRACTED-PUB-NO: JP 08334997A

## BASIC-ABSTRACT:

The device consists of a fixing roller (2) and a heating roller (3). An endless fixing belt (1) moves over the rollers. A pressure application roller (4) is made to contact with the fixing roller through the fixing belt.

An oil application and tension providing roller (51) moves against the belt, running between the upper surfaces of the heating and fixing rollers. A silicone oil feed member (52) is kept in contact with the oil application and tension providing roller. A cleaning member (53) moves against the tension providing roller.

ADVANTAGE - Prolongs life time. Achieves stable heating of fixing belt.

ABSTRACTED-PUB-NO: US 5666623A

## EQUIVALENT-ABSTRACTS:

The belt transporting device comprises: a first roller; a second roller which is parallel to the first roller; an endless belt which extends around the first roller and the second roller along with a belt path, the belt being connected to the second roller so that the second roller is driven by rotating of the belt; a device for rotating the belt in a belt rotating direction; and a member which is in contact with the belt at a first position between the first roller and the second roller, a distance between the first position and the second roller is shorter than a distance between the first position and the first roller, the first position is upstream of the second roller along the belt path in the belt rotating direction, where the member contacts the belt so as to induce a predetermined tension in the belt.

CHOSEN-DRAWING: Dwg.1/7 Dwg.1/9

DERWENT-CLASS: A88 P84

CPI-CODES: A12-L05C1;

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIG	Draw. U
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☐ 3. Document ID: US 5666623 A Relevance Rank: 95

L1: Entry 16 of 17

File: USPT

Sep 9, 1997

US-PAT-NO: 5666623

DOCUMENT-IDENTIFIER: US 5666623 A

TITLE: Fusing belt type heat fusing device

DATE-ISSUED: September 9, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Tetsuya	Aichi-Ken			JP
Isogai; Mitsuru	Aichi-Ken			JP
Yamada; Takashi	Aichi-Ken			JP
Yoneda; Satoru	Toyohashi			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Minolta Co., Ltd.	Osaka			JP	03

APPL-NO: 08/ 654889 [PALM]

DATE FILED: May 29, 1996

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	7-138966	June 6, 1995

INT-CL: [06] G03 G 15/20

US-CL-ISSUED: 399/320; 219/216, 399/116, 399/325, 399/367

US-CL-CURRENT: 399/320; 219/216, 399/116, 399/325, 399/367

FIELD-OF-SEARCH: 355/282, 355/283, 355/285, 355/308, 355/309, 355/212, 355/271, 355/290, 355/295, 219/216, 219/469-471, 432/60, 118/60, 399/320, 399/325, 399/326, 399/367, 399/116, 399/329, 271/3.01

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3948215</u>	April 1976	Namiki	118/60
<u>4563073</u>	January 1986	Reynolds	
<u>4973824</u>	November 1990	Ohashi et al.	219/216
<u>5027160</u>	June 1991	Okada et al.	
<u>5115279</u>	May 1992	Nishikawa et al.	
<u>5465146</u>	November 1995	Higashi et al.	355/285
<u>5493371</u>	February 1996	Kutsuwada et al.	355/271

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
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6-318001

November 1994

JP

ART-UNIT: 215

PRIMARY-EXAMINER: Lee; Shuk

ATTY-AGENT-FIRM: Burns, Doane, Swecker &amp; Mathis, LLP

## ABSTRACT:

A fusing belt type heat fusing device has a rotating fusing roller, a driven heating roller, an endless fusing belt wrapped and stretched around the two rollers, a pressure roller that applies pressure to the fusing roller through the fusing belt, and a separation agent application and tension transmission element that applies an offset suppression separation agent to the fusing belt in addition to transmitting tension to the fusing belt. The separation agent application and tension transmission element is installed so as to make contact with the fusing belt at an upstream side of the heating roller in the rotation direction of the fusing belt between the fusing roller and the heating roller and at a position closer to the heating roller than a center position between the fusing roller and the heating roller.

40 Claims, 11 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 4. Document ID: US 5895152 A Relevance Rank: 95

L1: Entry 15 of 17

File: USPT

Apr 20, 1999

US-PAT-NO: 5895152

DOCUMENT-IDENTIFIER: US 5895152 A

TITLE: Fixing device and fixing temperature control method

DATE-ISSUED: April 20, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ide; Atsushi	Nara			JP
Irie; Kazumi	Yamatokoriyama			JP
Tsubaki; Yoritaka	Yamatokoriyama			JP
Yamamoto; Masao	Yamatokoriyama			JP
Matsuda; Hideo	Nara			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sharp Kabushiki Kaisha	Osaka			JP	03

APPL-NO: 08/ 968288 [PALM]

DATE FILED: November 12, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-301517	November 13, 1996
JP	8-310241	November 21, 1996

INT-CL: [06] G03 G 15/20

US-CL-ISSUED: 399/322; 399/329, 219/216

US-CL-CURRENT: 399/322; 219/216, 399/329

FIELD-OF-SEARCH: 399/67-70, 399/329, 399/322, 399/332, 399/328, 219/216, 430/124, 430/126

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5053829</u>	October 1991	Field et al.	399/329
<u>5339146</u>	August 1994	Aslam et al.	399/342
<u>5666623</u>	September 1997	Yamada et al.	399/320
<u>5671473</u>	September 1997	Yamada et al.	399/320
<u>5771434</u>	June 1998	Hokari	399/400

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
3-198080	August 1991	JP	
06318001	November 1994	JP	
9-197735	July 1997	JP	

ART-UNIT: 282

PRIMARY-EXAMINER: Smith; Matthew S.

ATTY-AGENT-FIRM: Dike, Bronstein, Roberts &amp; Cushman, LLP Conlin; David G.

## ABSTRACT:

Since the paper entry guide is disposed below and in close proximity to a fixing belt, the leading edge of recording paper can become wavy or curled when operated in a high temperature, high humidity environment or when printing on the reverse side of the paper in double-sided print mode, and this has lead to the problem that the leading edge of the recording paper after transfer is not properly inserted in the narrow spacing between the paper entry guide and the fixing belt, resulting in a recording paper jam. A fixing device comprises a fixing belt stretched around a heating roller with a heat source contained therein and a fixing roller, a pressing roller for pressing the fixing roller from below via the fixing belt, and a paper entry guide disposed below and in close proximity to the fixing belt and upstream of a nipping portion composed of the fixing belt and the pressing roller. The paper entry guide is pivotably supported on a fulcrum. A solenoid is provided at the

upstream side of the paper entry guide, and a return spring is disposed above the paper entry guide. The solenoid, when in the ON state, pulls a plunger to its lowermost position against the spring force of the return spring, and thereby rotates the paper entry guide in the clockwise direction about the fulcrum to maintain spacing with respect to the fixing belt.

10 Claims, 24 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INTC	Draw D
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☐ 5. Document ID: US 6055390 A      Relevance Rank: 95

L1: Entry 14 of 17

File: USPT

Apr 25, 2000

US-PAT-NO: 6055390

DOCUMENT-IDENTIFIER: US 6055390 A

TITLE: Fixing device and method for controlling fixing temperature in a stable manner

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kurotaka; Shigeo	Sagamihara			JP
Hirai; Kazumasa	Tokyo			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Ricoh Company, Ltd.	Tokyo			JP	03

APPL-NO: 09/ 087863      [PALM]

DATE FILED: June 1, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-155388	June 12, 1997

INT-CL: [07] G03 G 15/20

US-CL-ISSUED: 399/69; 219/216, 399/329

US-CL-CURRENT: 399/69; 219/216, 399/329

FIELD-OF-SEARCH: 399/67, 399/69, 399/70, 399/320, 399/329, 399/330, 399/335, 219/216, 219/469

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4144835</u>	March 1979	Fukase et al.	219/469 X
<u>5592275</u>	January 1997	Echigo et al.	
<u>5666623</u>	September 1997	Yamada et al.	399/320
<u>5671473</u>	September 1997	Yamada et al.	399/320
<u>5678161</u>	October 1997	Kurotaka et al.	
<u>5708948</u>	January 1998	Chen et al.	399/329
<u>5714736</u>	February 1998	Yoneda et al.	399/330 X
<u>5716750</u>	February 1998	Tyagi et al.	399/320 X
<u>5752148</u>	May 1998	Yoneda et al.	399/329
<u>5832353</u>	November 1998	Sano	399/329
<u>5873020</u>	February 1999	Matsuura et al.	399/329

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
4-273279	September 1992	JP	
4-362984	December 1992	JP	
2644271	May 1997	JP	

ART-UNIT: 282

PRIMARY-EXAMINER: Lee; Susan S. Y.

ATTY-AGENT-FIRM: Oblon, Spivak, McClelland, Maier &amp; Neustadt, P.C.

## ABSTRACT:

A belt fixing device including a fixing roller, a heating roller, an endless fixing belt spanned around the fixing roller and the heating roller and a pressing roller disposed opposing the fixing roller via the fixing belt, a heater disposed at least in the inside of the heating roller for heating the fixing belt, a heating area where the fixing belt is heated by the heating roller, a fixing area including a first fixing part where the pressing roller contacts the fixing belt without pressing the fixing roller and a second fixing part where the pressing roller presses the fixing roller via the fixing belt, a temperature detect device which detects a surface temperature of the fixing belt in the heating area, and a temperature control device which controls the surface temperature of the fixing belt in the heating area to a prescribed temperature according to a detect result of the temperature detect device. The prescribed temperature includes at least a first prescribed temperature and a second prescribed temperature, the first prescribed temperature being higher than the second prescribed temperature, and the temperature control device changes the first prescribed temperature to the second prescribed temperature when fixing is started after the fixing belt starts rotating upon receiving a start signal to start an image forming operation.

8 Claims, 17 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	FIGS	Draw D



☐ 6. Document ID: US 6091926 A      Relevance Rank: 95

L1: Entry 13 of 17

File: USPT

Jul 18, 2000

US-PAT-NO: 6091926

DOCUMENT-IDENTIFIER: US 6091926 A

TITLE: Fixing device using a belt for an image forming apparatus

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Masamichi	Kanagawa			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Ricoh Company, Ltd.	Tokyo			JP	03

APPL-NO: 09/ 277222      [PALM]

DATE FILED: March 26, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	10-081693	March 27, 1998

INT-CL: [07] G03 G 15/20

US-CL-ISSUED: 399/329; 399/75, 399/333

US-CL-CURRENT: 399/329; 399/333, 399/75

FIELD-OF-SEARCH: 399/75, 399/320, 399/324, 399/328, 399/329, 399/333, 219/216, 347/156, 430/97, 430/124

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4598990</u>	July 1986	Kusumoto et al.	399/75
<u>5471288</u>	November 1995	Ohtsuka et al.	399/324 X
<u>5581340</u>	December 1996	Hayashi et al.	399/328
<u>5666623</u>	September 1997	Yamada et al.	399/320
<u>5697036</u>	December 1997	Moser	399/329
<u>5890047</u>	March 1999	Moser	399/329
<u>5918098</u>	June 1999	Van Bennekom	399/333
<u>5926680</u>	July 1999	Yamamoto et al.	399/328

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
5-080666	April 1993	JP	
8-286535	November 1996	JP	

ART-UNIT: 282

PRIMARY-EXAMINER: Brase; Sandra

ASSISTANT-EXAMINER: Chen; Sophia S.

ATTY-AGENT-FIRM: Oblon, Spivak, McClelland, Maier &amp; Neustadt, P.C.

## ABSTRACT:

A fixing device for fixing a toner image formed on a recording medium includes an endless belt passed over a plurality of rollers. A press roller is pressed against a portion of the belt passed over a fix roller, which is one of the plurality of rollers. A heat source applies heat to the toner image carried on the recording medium being conveyed via a nip where the belt and press roller are pressed against each other. The nip has a width greater than 25.degree. inclusive in terms of a circumferential angle as seen from the axis of the fix roller. The fixing device prevents a recording medium from wrapping around the belt and broadens a parting temperature range.

31 Claims, 14 Drawing figures

Full	Title	Abstract	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 7. Document ID: US 6212356 B1 Relevance Rank: 95

L1: Entry 12 of 17

File: USPT

Apr 3, 2001

US-PAT-NO: 6212356

DOCUMENT-IDENTIFIER: US 6212356 B1

TITLE: Fixing apparatus

DATE-ISSUED: April 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Youichi	Minato-ku			JP
Kato; Takeshi	Minato-ku			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Nitto Kogyo Co., Ltd.	Tokyo			JP	03

APPL-NO: 09/ 446510 [PALM]

DATE FILED: April 25, 2000

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-186040	June 27, 1997
JP	10-165852	June 1, 1998

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/JP98/02825	June 24, 1998	WO99/00713	Jan 7, 1999	Apr 25, 2000	Apr 25, 2000

INT-CL: [07] G03 G 15/20

US-CL-ISSUED: 399/329; 399/320

US-CL-CURRENT: 399/329; 399/320

FIELD-OF-SEARCH: 399/329, 399/330, 399/320, 399/335, 399/336, 219/216, 219/469, 219/470, 219/471

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5666623</u>	September 1997	Yamada et al.	399/320
<u>5671473</u>	September 1997	Yamada et al.	399/320
<u>5713069</u>	January 1998	Kato	399/330
<u>5752148</u>	May 1998	Yoneda et al.	399/329
<u>6091926</u>	July 2000	Yamada	399/329
<u>6118955</u>	September 2000	Yoneda et al.	399/329 X

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
64-90477	April 1989	JP	
1-144084	June 1989	JP	
4-136967	May 1992	JP	
5-127551	May 1993	JP	
5-134471	May 1993	JP	
8-262892	October 1996	JP	
8-339133	December 1996	JP	
10-63125	March 1998	JP	
10-133506	May 1998	JP	

ART-UNIT: 282

PRIMARY-EXAMINER: Lee; Susan S. Y.

ATTY-AGENT-FIRM: Armstrong, Westerman, Hattori, McLeland, &amp; Naughton, LLP

## ABSTRACT:

A fixing apparatus is capable of ensuring the increase of the feeding speed of the recording medium, by effectively accomplishing to preheat the recording medium. In order to accomplish the object, the fixing apparatus (10) have a fixing roller (22), and a pressing roller (24) being rollingly contacted the fixing roller (22) by a predetermined pressure, wherein an unfixed toner image which is carried on a sheet (S) is fixed thereon by passing the sheet (S), on which the toner image is carried, through a nip portion between the fixing roller (22) and the pressing roller (24) along one direction, and further have a heater (26) provided so as to be remote from said fixing roller (22), a heating roller (28) provided so as to be remote from the fixing roller (22), a fixing belt (32) endlessly trained around the heating roller (28) and fixing roller (22), for heating the sheet (S) passing through the nip portion upon receiving the heat from the heater (26), a supporting member (30) fixed on an upstream side of pressing roller (24) with respect to one direction, for supporting the undersurface of the sheet (S) prior to passing through the nip portion, and a heating member (34) for heating the supporting member (3) to preheat the sheet (S) prior to pass through the nip portion.

35 Claims, 27 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D.
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☐ 8. Document ID: US 6226488 B1      Relevance Rank: 95

L1: Entry 10 of 17

File: USPT

May 1, 2001

US-PAT-NO: 6226488

DOCUMENT-IDENTIFIER: US 6226488 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Fixing apparatus for controlling distance between heating means and guide member

DATE-ISSUED: May 1, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maeyama; Ryuichiro	Yokohama			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 066837    [PALM]

DATE FILED: April 28, 1998

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-134331	May 7, 1997

INT-CL: [07] G03 G 15/20

Set	Items	Description
S1	10194	AU= (OTSUKA Y? OR OTSUKA, Y? OR YONEDA S? OR YONEDA, S?)
S2	42123	FIX????() (DEVICE? OR BELT?)
S3	6066050	HEAT?
S4	106692	NIP?????
S5	1511101	ROLL????
S6	4720808	PRESSUR????????
S7	8952	(BELT? ? OR STRAP? OR FASTEN? OR GIRDLE?) () (TYPE OR SORT??? OR STYLE? ?)
S8	130	S7(3N)S2
S9	6	S8 AND S1
S10	6	RD (unique items)
S11	1611879	IMAG?????()FORM????? OR ELECTROPHOTO? OR PRINT????? OR COP- IER????
S12	60	S8 AND S11
S13	55	S12 NOT S10
S14	55	RD (unique items)
S15	48	S14 AND (S3 OR S4 OR S5 OR S6 OR THERMAL?)

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